

**“Knowledge without practice is  
useless. Practice without  
knowledge is dangerous.”**

- *Confucius*



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# Agenda for today

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- Quick Recap of Day 4
- Hands-on with actual hardware
- Daily Challenge
- Discussion on Prized Challenges

# Basic

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# 1. Connect ESP8266 to your computer



## 2. Blink onboard LED



### 3. Check internal features of ESP8266: Frequency



## 4. Set time on the internal RTC



Try out Deep Sleep mode

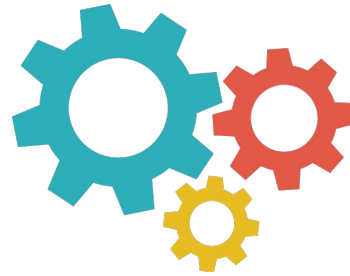


# Sensors

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5. Use Flash Button (GPIO0) to turn on the LED



## 6. Connect a PIR motion sensor and control onboard LED



## 7. Interface DHT11 sensor with ESP8266



# Control LED with change in temperature

# Actuators

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## 8. Interface WS2812 LED with ESP8266



## 9. Interface Servo motor with ESP8266 and control angles





Control servo motor when a motion is triggered

# Daily Challenge

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## **Problem Statement:**

Explore interfacing of Ultrasonic sensor using Wokwi. Write a simple code to calculate distance.

## **Hint:**

- Sample code for integration is easily available in internet

# What's the progress on Prized challenges



*Thank you*



## GROUP VENTURES

